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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/019,642	02/01/2002		Richard Fayrer-Hosken	235.00310101	1056
26813	7590	07/01/2004		EXAM	INER
MUETING P.O. BOX 5	•	H & GEBHARDT	SZPERKA, MICHAEL EDWARD		
MINNEAPOLIS, MN 55458				ART UNIT	PAPER NUMBER
	,			1644	

DATE MAILED: 07/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/019,642	FAYRER-HOSKEN ET AL.					
Office Action Summary	Examiner	Art Unit					
•	Michael E Szperka	1644					
The MAILING DATE of this communication ap	•	! I					
Period for Reply	•	·					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replaced of the period for reply specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply by within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS e, cause the application to become ABAND	be timely filed) days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	·						
2a) This action is FINAL . 2b) ⊠ This	s action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11	, 453 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-28 is/are pending in the application	1.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.	<u> </u>						
7) Claim(s) is/are objected to.							
8) Claim(s) 1-28 are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	er.						
10)☐ The drawing(s) filed on is/are: a)☐ acc		he Examiner.					
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the correct	ction is required if the drawing(s) is	s objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the E		•					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. & 110	9(a) (d) or (f)					
a) ☐ All b) ☐ Some * c) ☐ None of:	i priority under 55 0.5.6. § 11.	s(a)-(u) or (i).					
1. Certified copies of the priority documen	ts have been received	·					
Certified copies of the priority document		cation No					
3. Copies of the certified copies of the prior	, ,						
application from the International Burea		erved in this National Stage					
* See the attached detailed Office action for a list	, ,,,	eived					
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Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summ	nary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Ma	ail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date) 5) Notice of Inform 6) Other:	nal Patent Application (PTO-152)					

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DETAILED ACTION

Election/Restrictions

1 Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 1-11, drawn to a fertility impairing vaccine comprising an avian zona pellucida <u>protein</u> or an immunogenic fragment thereof.

Group II, claims 1, 6-8, and 10-16, drawn to a fertility impairing vaccine comprising a <u>polynucleotide</u> that encodes an avian zona pellucida protein or encodes an immunogenic fragment of said protein.

Group III, claims 1-11, 27, and 28, drawn to a fertility impairing vaccine comprising an avian zona pellucida <u>protein</u> or an immunogenic fragment thereof, and a porcine zona pellucida protein or an immunogenic fragment thereof.

Group IV, claims 1, 6-8, 10-16 and 27, drawn to a fertility impairing vaccine comprising polynucleotides encoding an avian zona pellucida protein or an immunogenic fragment thereof, and polynucleotides encoding a porcine zona pellucida pellucida protein or an immunogenic fragment thereof.

Group V, claims 17-25, drawn to a method of administering a fertility impairing vaccine comprising an avian zona pellucida protein or an immunogenic fragment thereof.

Group VI, claims 17-25, drawn to a method of administering a fertility impairing vaccine comprising a <u>polynucleotide</u> that encodes an avian zona pellucida protein or encodes an immunogenic fragment of said protein.

Group VII, claims 17-25, drawn to a method of administering a fertility impairing vaccine comprising an avian zona pellucida <u>protein</u> or an immunogenic fragment thereof, and a porcine zona pellucida pellucida protein or an immunogenic fragment thereof.

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Group VIII, claims 17-26, drawn to a method of administering a fertility impairing vaccine comprising <u>polynucleotides</u> encoding an avian zona pellucida protein or an immunogenic fragment thereof, and <u>polynucleotides</u> encoding a porcine zona pellucida pellucida protein or an immunogenic fragment thereof.

The inventions listed as Groups I-VIII do not relate to a single general inventive concept under PTC Rule 13.1 because, under PTC Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

As was found in the International Search Report, the Inventions of Groups I and III were found to have no special technical feature that defined a contribution over the prior art of M. Waclawek et al., "The chicken homologue of zona pellucida protein 3 is synthesized by granuloma cells" *Biology of Reproduction*, vol. 59, 1998 pages 1230-1239, and T. Tsuda et al., "Isolation and Characterization of Chicken egg coat 97kDa glycoprotein: the chicken homologue of zona pellucida glycoprotein B (ZPB)" *Zygote*, vol. 6, supplement 1, 1998 pages 94-95.

Waclewek et al. teaches a partial sequence of avian zona pellucida protein 3 while Tsuda et al. teaches the isolation and characteristics of the chicken homolog of ZPB. As Applicants do not indicate a specific avian zona pellucida protein, claims 1-5 are anticipated by these references.

Since Applicant's Inventions do not contribute a special technical feature when viewed over the prior art they do not have a single general inventive concept and so lack unity of invention.

Further, it is noted that the claims are drawn to patentably distinct products that differ in structure, and methods for administering said distinct products. For

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examination purposes the distinct products are a polypeptide vaccine derived from an

avian source, a polynucleotide vaccine derived from an avian source, a polypeptide

vaccine derived from avian and porcine sources, and a polynucleotide vaccine derived

from avian and porcine sources. If Applicant claims other products or combinations of

products, the claims will be subject to further restriction. Therefore, the restriction is set

forth for each of the various groups, irrespective of the format of the claims.

3. For examination purposes the following is noted:

This application contains claims directed to the following patentably distinct species of

the claimed inventions of Groups V-VIII in that they encompass a method of vaccination

that can be performed on many mammals. Applicant is required to elect one mammal

for the method of vaccination from the following list:

- a) horse,
- b) deer,
- c) elephant,
- d) rat,
- e) mouse,
- f) rabbit,
- g) ferret,
- h) dog, or
- i) cat.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. For example, currently claims 17 and 21 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

4. The examiner has required restriction between product and process claims.

Where applicant elects claims directed to the product, and a product claim is

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subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after allowance are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CRF 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of In re Ochiai, In re Brouwer, and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

- 5. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Szperka whose telephone number is 571-272-2934. The examiner can normally be reached on M-F 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on 571-272-0841. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael Szperka, Ph.D. Patent Examiner Technology Center 1600 June 22, 2004

DIAMER GAMBEL PHILLIP GAMBEL, PH.D
PRIMARY EXAMINER
TORE CONTINUE

6/24/64

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